

SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1951-2004/Nov W2
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*File 155: Medline will stop updating COMPLETED records on November 17, 2004. Please see HELP NEWS 155 for details.

File 2:INSPEC 1969-2004/Nov W1
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*File 2: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.

File 5:Biosis Previews(R) 1969-2004/Nov W2
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File 94:JICST-EPlus 1985-2004/Oct W3
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File 35:Dissertation Abs Online 1861-2004/Oct
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File 144:Pascal 1973-2004/Nov W1
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File 105:AESIS 1851-2001/Jul
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*File 105: This file is closed.(no updates).

File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Sep
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File 58:GeoArchive 1974-2004/Sep
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File 34:SciSearch(R) Cited Ref Sci 1990-2004/Nov W2
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File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
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File 292:GEOBASE(TM) 1980-2004/Oct B2
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File 89:GeoRef 1785-2004/Oct B2
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*File 89: Truncate SH codes for a complete retrieval.

File 65:Inside Conferences 1993-2004/Nov W2
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File 350:Derwent WPIX 1963-2004/UD,UM &UP=200474
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*File 350: For more current information, include File 331 in your search. Enter HELP NEWS 331 for details.

File 347:JAPIO Nov 1976-2004/Jul (Updated 041102)
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*File 347: JAPIO data problems with year 2000 records are now fixed. Alerts have been run. See HELP NEWS 347 for details.

Set	Items	Description
S1	1771117	MRI OR MAGNETIC(1W) (IMAG? OR IMAGING) OR MAGNETIC(W) RESONAN? OR NMR OR NUCLEAR() MAGNETIC() RESONANCE OR FTNMR OR FTMRI - OR MAGNETORESONANCE OR PMR OR PROTON(W) MAGNETIC(W) RESONAN? OR MR() (IMAGE? OR IMAGING)
S2	41246	MC=(S01-E02A2 OR S03-E07A OR S01-E02A8A OR S01-E02A1 OR S03-E07C OR S05-D02B1 OR S03-C02F1) OR IC=(G01R-003 OR G01N-024-/08 OR G01V-003/A75) OR CC=(A0758 OR A8760I OR B7510N)
S3	1785139	S1:S2
S4	171257	(EARTH?? OR GROUND?? OR ROCK? ? OR STONE? ? OR GEOLOGIC?) (-3N) FORM????????
S5	184098	(EARTH?? OR GROUND?? OR ROCK? ? OR STONE? ? OR GEOLOGIC? OR SUBTERRAN? OR UNDERGROUND? OR UNDER() GROUND?) (3N) FORM????????
S6	205572	(BENEATH OR UNDER OR BELOW) (3N) (EARTH? OR GROUND? OR SURFACE?)
S7	387300	S4:S6
S8	994800	POLARIZ? OR POLARIS?
S9	636	(POLARIZ? OR POLARIS?) (3N) AGENT? ?
S10	15336	(ENHANS? OR INCREAS? OR MAXIM? OR GREATER) (3N) (POLARIZ? OR POLARIS?)
S11	23304	(OVERHAUSER OR OVER() HAUSER) (3N) (EFFECT? ? OR NUCLEAR?)
S12	76810	OPTICAL? (3N) PUMP?
S13	140709	(MRI OR MAGNETIC(1W) (IMAG? OR IMAGING) OR MAGNETIC(W) RESONAN? OR NMR OR NUCLEAR() MAGNETIC() RESONANCE) (3N) (MONITOR???? OR MEASUR???? OR TEST???? OR CHECK???? OR EXAMIN???? OR DETECT????)
S14	13511263	(LIQUID? ? OR FLUID? ? OR AQUA OR AQUEOUS OR AQUAE OR AQUAS OR H2O OR WATER??)
S15	994800	S8:S10
S16	2685	S3 AND S7
S17	171	S16 AND S15
S18	2	S17 AND S11
S19	2	RD (unique items)
S20	169	S17 NOT S18
S21	3	S20 AND S12
S22	3	RD (unique items)
S23	166	S20 NOT S21
S24	51	S23 AND S13
S25	28	S24 AND S14
S26	27	RD (unique items)
S27	63	S23 NOT S4
S28	4	S27 AND S5
S29	4	RD (unique items)
S30	59	S27 NOT S28
S31	59	S30 AND S6
S32	4	S31 AND S13
S33	3	RD (unique items)
S34	55	S31 NOT S32
S35	23	S24 NOT S25
S36	23	RD (unique items)
S37	0	S36 AND S14
S38	0	S36 AND S12
S39	23	S36
S40	3655	S15 AND S13
S41	1001	S40 AND S14
S42	1001	S41 AND S1

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S43	19	S42 AND S10
S44	0	S43 AND S9
S45	19	S43
S46	15	RD (unique items)

19/3,AB/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
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00874733 INSPEC Abstract Number: A76023156
Title: CIDNP during photoreactions of formaldehyde in solution
Author(s): Den Hollander, J.A.; Van Der Ploeg, J.P.M.
Author Affiliation: Dept. of Theoretical Organic Chem., Univ. of Leyden,
Leyden, Netherlands
Journal: Chemical Physics Letters vol.37, no.1 p.149-52
Publication Date: 1 Jan. 1976 Country of Publication: Netherlands
CODEN: CHPLBC ISSN: 0009-2614
Language: English
Abstract: CIDNP has been studied during photolysis of formaldehyde in
solution. The primary photochemical process is the hydrogen abstraction by
predominant triplet excited **formaldehyde** from **ground state**
formaldehyde. In the presence of bromotrichloromethane a singlet
reaction occurs.
Subfile: A

19/3,AB/2 (Item 1 from file: 94)
DIALOG(R)File 94:JICST-EPlus
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01530596 JICST ACCESSION NUMBER: 92A0473974 FILE SEGMENT: JICST-E
Correlation of Exciplex **Formation** with **Ground State**
Conformations in B-(1-Pyrenyl)ethyl Benzoates.
KAWAKAMI J (1); IWAMURA M (1); NAKAMURA J (2)
(1) Toho Univ., Funabashi; (2) Inst. Physical and Chemical Research,
Saitama
Chem Lett, 1992, NO.6, PAGE.1013-1016, FIG.2, TBL.1, REF.8
JOURNAL NUMBER: S0742AAV ISSN NO: 0366-7022 CODEN: CMLTA
UNIVERSAL DECIMAL CLASSIFICATION: 547.68 539.193+544.16
LANGUAGE: English COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Short Communication
MEDIA TYPE: Printed Publication
ABSTRACT: B-(1-Pyrenyl)ethyl p-cyanobenzoate (P2CN) which forms an emissive
intramolecular exciplex has a "folded" conformation as detected by 1H-NMR NOE.
Precise decay lifetime analysis also confirms that the exciplex emission is mainly
from that conformer. Exciplex emission was not observed for the p-chlorobenzoate
(P2Cl) which did not show NOE. (author abst.) ?

22/3,AB/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
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03861753 INSPEC Abstract Number: A91052806

Title: High-field **NMR** of adsorbed xenon **polarized** by laser pumping

Author(s): Raftery, D.; Long, H.; Meersmann, T.; Grandinett, P.J.; Reven, L.; Pines, A.

Author Affiliation: Div. of Mater. Sci., Lawrence Berkeley Laboratory, CA, USA

Journal: Physical Review Letters vol.66, no.5 p.584-7

Publication Date: 4 Feb. 1991 Country of Publication: USA

CODEN: PRLTAO ISSN: 0031-9007

Language: English

Abstract: **Optical pumping** has been used to enhance the pulsed **NMR** signal of ^{129}Xe , allowing the detection of low-pressure xenon gas and of xenon adsorbed on powdered solids. The authors observe an increase in sensitivity of more than two orders of magnitude over conventional **NMR**, the current limitation being the laser power. Adsorbed xenon is observed at 298 K on graphitized carbon (10 m²/g) and on powdered benzantracene (approximately 0.5 m²/g) below 170 K. The increased sensitivity of this technique allows the study of a large class of amorphous materials with **surface areas below** 10 m²/g including semiconductors, polymers, metal oxides and catalysts.

Subfile: A

22/3,AB/2 (Item 1 from file: 99)
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
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1544007 H.W. WILSON RECORD NUMBER: BAST97058586

Optical pumping and magic angle spinning: sensitivity and resolution enhancement for surface **NMR** obtained with laser-**polarized** xenon

Raftery, Daniel; MacNamara, Ernesto; Fisher, Gregory

Journal of the American Chemical Society v. 119 (Sept. 17 '97) p. 8746-7

DOCUMENT TYPE: Feature Article ISSN: 0002-7863

ABSTRACT: **Optically pumped** ^{129}Xe was used to improve **surface** proton spins under high-resolution, solid-state magic angle spinning (MAS) **NMR** spectroscopic conditions. The enhancement offered by the OPMAS (**optical pumping** and magic angle spinning) method is modest for high-surface areas such as fumed silica. Nevertheless, the observed signals represent an increase of signal corresponding to 4 [times] 10¹⁸ spins at equilibrium **polarization**. The enhancements should **increase** significantly following optimization of the **optical pumping** setup and the **polarization** transfer step.

22/3,AB/3 (Item 2 from file: 99)
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
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1123916 H.W. WILSON RECORD NUMBER: BAST93056068

High-field cross **polarization NMR** from laser-**polarized** xenon to a polymer surface

Long, H. W; Gaede, H. C; Shore, J

Journal of the American Chemical Society v. 115 (Sept. 8 '93) p. 8491-2

ABSTRACT: Laser-polarized xenon was used as a source of magnetization for a high-field cross polarization experiment.

Contact between laser-polarized xenon, adsorbed on poly(triarylcarbinol), and surface spins was achieved in high field by Hartmann-Hahn matching of the energy levels in the rotating frame.

NMR was used to detect the polarized species directly. It was found that, under favorable circumstances (high surface area and long relaxation time), laser-polarized, adsorbed xenon can be employed to transfer spin order to surface spins selectively.